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# User Manual of **Challenger**

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# User Manual of Challenger – Table of Conten

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# 1. Foreword

No matter how high place you want to go, EZW5000 is definitely your best partner for all kinds of challenge. Irreplaceable and incomparable!

◆ Upgraded 36V system, EZW5000 offers longer continuance of battery power and improves the loading capacity.
◆ Strong 500W brushless hub motor outputs higher horse power, providing speed and explosiveness.
◆ Equipped with large volume of 14Ah Lithium battery, EZW5000 is easy to extend your journey up to 100km.
◆ Three pedaling modes cater to different demands: Throttle acceleration (100% electric power), pedelec (I.P.T.S.), and normal bike.
◆Front suspension fork and front/rear disc brakes system match perfectly, riding safety is guaranteed.

All-in-one hybrid technology integrated with safe riding concept, EZW5000 not only presents comfortable and powerful performance but also represents the new lifestyle of health and sustainability (LOHAS)!

To improve riding enjoyment and pedelec efficiency, the intelligent pedal speed sensor is used, which responds to power take-off control of pedal speed sensor synchronously by a central processing unit with artificial intelligence. It means that depending on change of terrain and riding gear, pedelec system will output relevant auxiliary power automatically and synchronously, achieving the riding enjoyment of the rider integrating into E-bike. So it's not only a 100% special bike, but also an eco-hybrid two-wheel-drive bike by activating pedelec system. People can not only regard it as a general recreational bike simply, but also use pedelec system to make the challenging long-distance riding or slope terrain become much easier and more comfortable. One bike

・ Many roles!

Thank you again for purchasing our product and welcome you to ride the new generation of bike. To ensure that your bike is in the best riding state, please read this manual in detail before using this product. This manual will help you understand the key use and maintenances of bike more as well as various precautions for riding safety, so as to create more riding enjoyment and value.

If you have any question about EZpro e-bike, please visit our website or contact us by email or phone and we will serve you with heart and soul.

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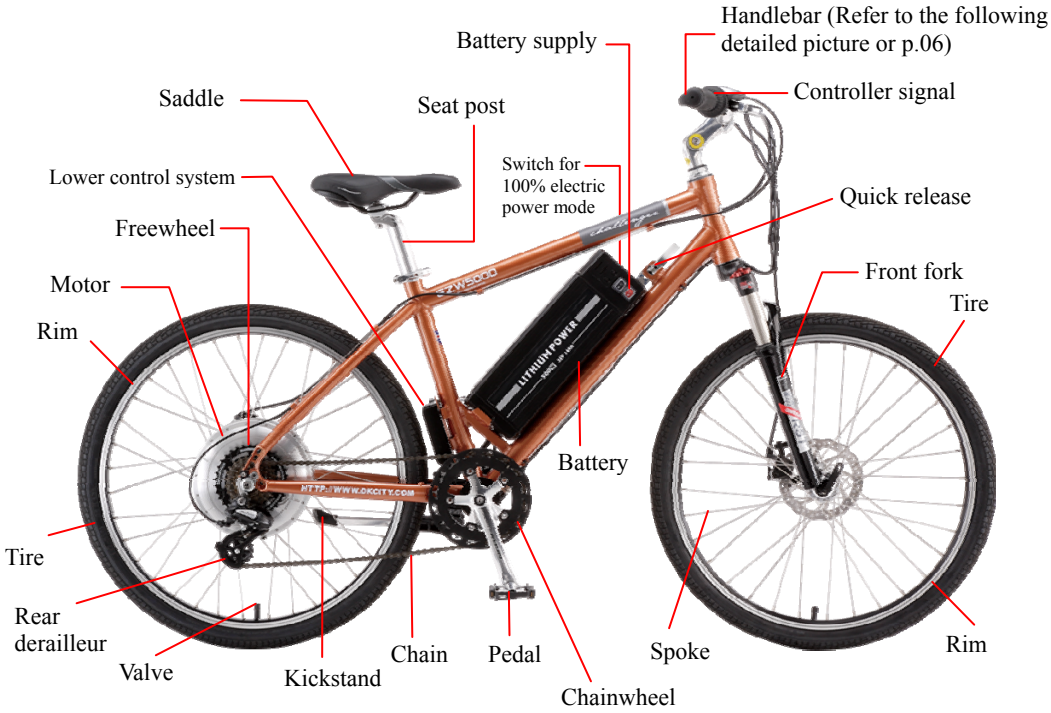
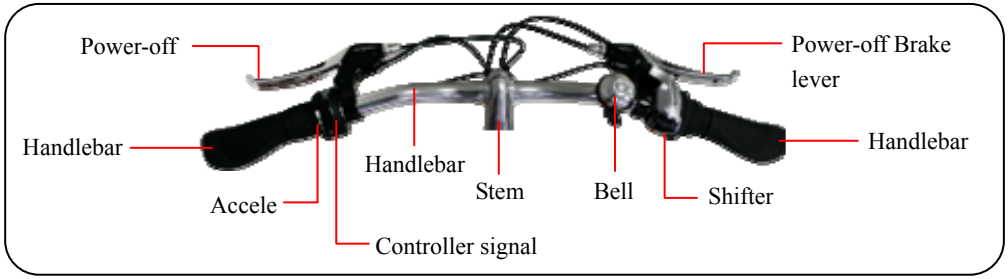
# I. About Challenger Applicable Terrain: ground and highway

◆Name of each part and introduction to operation: Bike body




## Attachment：

1. Charger
2. User Manual
3. Warranty Card
4. Battery

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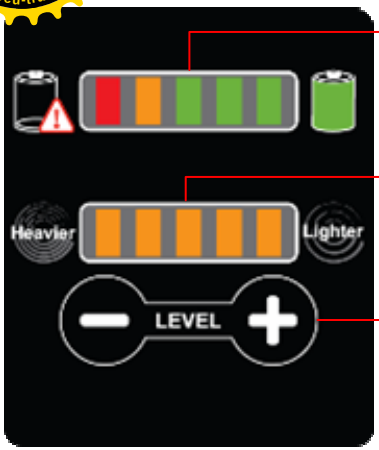
# Name of each part and operation introduction: Battery




Voltage meter:
It represents low (Red signal)-to-high (Green signal) power from left to right

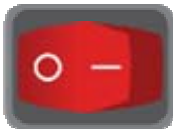
Torque segments:
One lamp signal represents one segment. The more lamp signals are, the stronger torque is.

Torque regulator:
To press Plus to increase torque level, 5 segments at most. To press Minus to decrease segments.

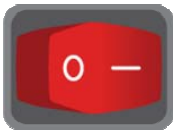
- If yellow signal and red signal are on, it means battery should be charged
- If red signal blink, it means under voltage and charging is urgently needed! Power output should be stopped, to avoid overdischarging.
- With memory function, it is needless to re-set again when startup each time.

| | | | | | | |
|---|---|---|---|---|---|---|
| Battery capacity | 1 | 2 | 3 | 4 | 5 | Remark: Reference value |
| | 10%↓ | 30% | 50% | 70% | 90%↑ | |
| Torque setting | 1 | 2 | 3 | 4 | 5 | |
| | 130W | 200W | 250W | 380W | 500W | |

Battery supply:



It's in the Off state.
No power is supplied.



Activate battery supply
Activate pedelec mode.

Switch for 100% electric power mode:

It's in the Off state.
Power-assisted speed sensor may be used.

Activate 100% electric power mode
Throttle grip may be used
(When battery supply is on)

**Caution!**

1. It's advised that all power supply is shut down if you will not ride the bike, to prevent from operating throttle improperly and micro power consumption of battery.
2. If battery will not be used for a long time, all power supply must be shut down. Take out battery holder and put it in a cool, ventilated place indoors. **Battery should be charged once within six months as from shipping date to ensure lifetime. It is charged with 70% of power before shipment.**

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## Name of each part and operation introduction: Handleba

### ...ft handlebar:

**Power of Brake**

Grasp the brake power-off lever inward to exert good brake effect. Do not brake the bike strongly and abruptly but to slow down the bike gradually.

Shifter

Form of Shifter: Rotary, 7 segments
While riding, rotate the shifter to change speed. Rotate the shifter downward to reach a higher segment and upward to a lower segment.

### Left handlebar:

**Throttle**

(In the 100% electric power mode)

Rotate the (left) grip of throttle downward to make bike go forward and loose the grip to slow down the bike. If your loose the grip completely, the bike will stop power output. While riding, accelerate the bike slowly to maintain riding safety. It's advised that all power supply is shut down if you stop the bike, to prevent from operating the throttle improperly and micro power consumption of battery.

**BikeBell**

To press the bell downward to make sound

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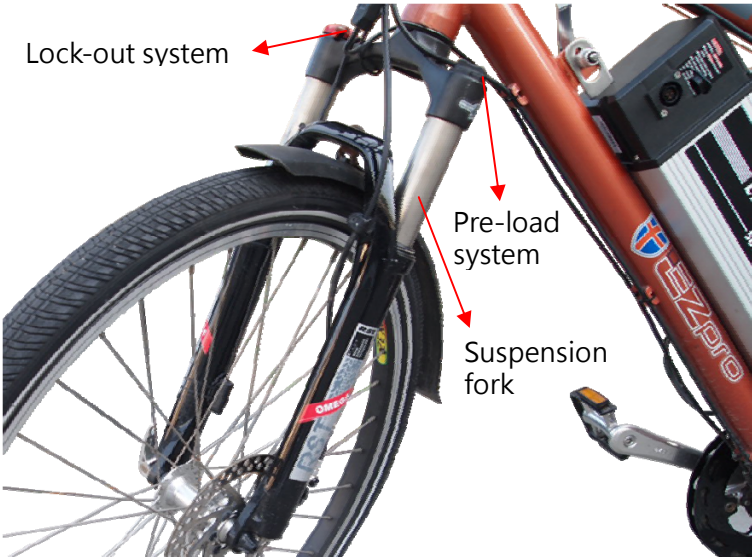
## Nam of each part and operation introduction:Suspension fo




【Lock-out system】

By using lever to adjust the fork' s compression from fast to slow gradually, then till lock-out position in the end.

【Pre-load system】

Adjustment by preload adjuster to improve the forks' performance which vary from respective rider' s weight. Turning the adjuster clock-wise to make the spring stiffer, if spring too soft. Turning the adjuster counter clock-wise to reduce the spring tension and make it softer.

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# Introduction of pedelec system

(1) Lower control system

It's the message transmission hub of central processing unit, speed sensor and battery pack. The overall wires are dustproof and waterproof, with IP 65 protection class

(2) Speed sensor set & power-off lever

It can automatically sense the force applied by rider on the pedal, provide assistance with linear acceleration and make the riding smoothly and fast like automatic transmission system. Manual power-off system will ensure more safety.

(3) Lithium battery pack

It has 36V 14AH high capacity and is ultra-light, only 4.5 kg. It can be used for multiple modes and installed on bike frame. Power consumption under full charge ＜ 0.7 degree. Endurance on the flat ground can achieve 100kg.

(4) 500W DC brushless motor

With high energy efficiency, low wear-out and high durability

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# 11. Information on riding safety

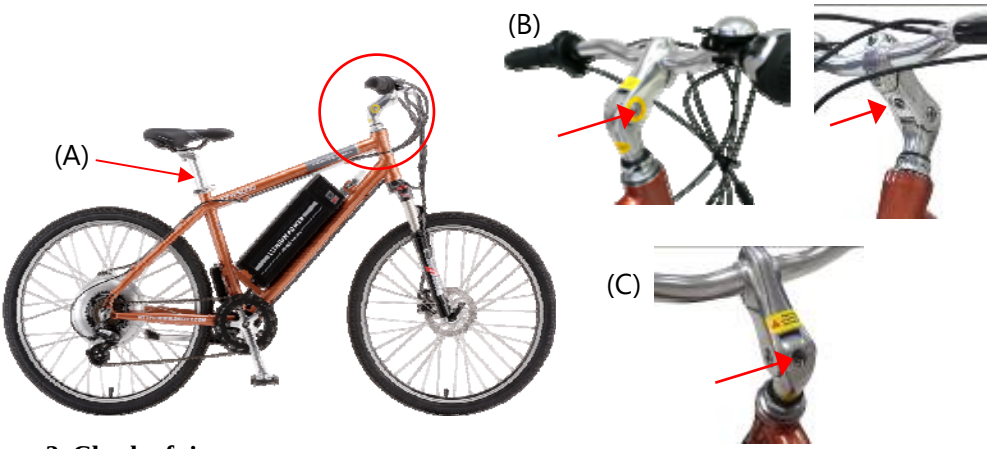
## ◆Pri-riding check and routine check

**1. Check of saddle**

- Height position of saddle: If you sit on the saddle and you can straighten your leg slightly at the bottom of the pedal stroke, the saddle height is most appropriate. If you can only step on pedal with tiptoe or you cannot straighten your leg, it's easy to cause fatigue or injury and saddle height must be adjusted.
- When you adjust the height of saddle, attention should be paid to safety line (A) indicated on seat post that should not be exceeded, to avoid danger. See the following picture for details.

**2. Check of handlebars**

- To make rider safer and more comfortable, please adjust handlebar to appropriate angle (See the following Fig. (B)) and confirm that you can rotate handlebar to each direction.
- To make rider safer and more comfortable, please adjust handlebar height to appropriate angle (See the following Fig. (C))




**3. Check of tires**

- Tire specification: 26"X1.75
- Tire pressure: 45-60 PSI

Check of the worn-out situation of tires: If groove of tread pattern is worn-out, please replace tire with new one. It's better to replace tires when the bike has been running for about 5,000 km to ensure safety.

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**4. Check of wheel rims**

- Rim specification: Double-layer rims made of aluminum alloy
- Check of the worn-out situation of rims: All rims have safe line. If the safe line is unclear due to abrasive wear, please replace rim.

**5. Check of brake system**

- Brakes will have weak clamping force if you ride the bike at rainy day, please brake the bike safely at longer distance and slow down.
- If you ride the bike at too high speed, do not brake the bike strongly and abruptly and you should slow down the bike gradually.
- Brake inner wire (Cable wire): The outlet of inner wire (Cable wire) of brake should avoid bifurcation. Please mount aluminum sheath (As shown in Fig. 1) at the end of cable wire. Inner wire (Cable wire) of brake should be lubricated (Stitching machine oil) on a regular basis, to avoid rustiness or unsmooth actuation.

**6. Check of chain**

- Lubricating time and position of chain: If chain produces abnormal sound, please add a little lubricating oil to the chain (Special chain lubricant should be used).

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# Prio riding check and routine check

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**Please carry out the following items to guarantee your own safety.**

## Check of bike frame body:

- Please confirm whether bike stand can be raised or lowered normally (Please refer to p.11)
- Hold the left and right levers to check whether brake system is efficient and levers can be operated flexibly. (Please refer to p.11)
- Check whether front fork moves up and down, to avoid the danger caused by the clearance between steering gear and front wheel
- Check whether tires are inflated properly, whether tread is damaged or tread patter is worn-out badly.
- Check whether wheel rim is in round shape. Please replace wheel rim at once if it's out of shape.
- Each part of bike must lock with each other, to avoid the danger caused by looseness.
- Adjust saddle height and handlebar angle properly and lock the saddle and handlebar well (Please refer to p.08)

## Check of power system:

- Check whether battery have sufficient power. (Please refer to p.05)
- Whether wires of power system are complete and free of damage and whether each connector is connected well.
- It's advised to use the parts from original manufacturer in case of replacement.

**Caution!** Please purchase the bike with proper size. A bike which is too large or small is not only hard to control, but also may cause bad effect.

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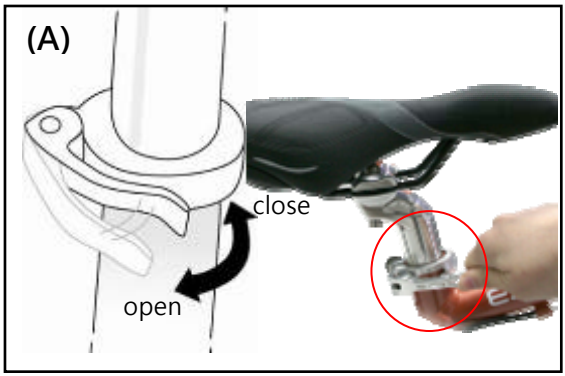
# Simple Adjustment

**(A)Saddle Height Adjustment:**

Loose the fixed bolts of seat post, adjust the saddle to proper height and then fasten the fixed bolts.




(B) Adjust saddle angle

**Adjustment of brake system:**

Loosen the fixed bolts and adjust the brake lever to make tightness of brake moderate.

1

Loosen the fixed bolts.

2

Adjust the brake lever to make tightness of brake moderate.

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# Precautions

**To ensure your riding safety, please make sure to read in detail and observe the following instructions and obey traffic rules. Otherwise, it may give rise to product damage and endanger your own or others' life.**

- Do not load other persons, to avoid accident.
- While riding the bike, please wear the helmet with the mark of conformity and buckle the belt of helmet.
- Make sure to carry out routine check and scheduled maintenance to reduce the fault of bike (Please refer to p.18)
- Do not ride the bike under the influence of alcohol. Please keep good mental conditions while riding.
- Do not modify bike frame body or remove parts illegally. Structure of bike interacts with function. Modification without permission will affect the operation and riding safety of bike and shorten the lifetime of bike.
- Do not disassemble bike body, panel, battery or other parts without instructions indicated in this manual.
- Do not let hands free or conduct other dangerous actions such as stunt show while riding.
- Do not ride the bike on the too rough pavement, to avoid the danger caused by damage of e-bike.
- Do not brake the bike abruptly at high speed, to avoid crash.
- Do not ride the bike on the water-logged ground, to avoid damp and fault of battery (Please refer to p.17)
- Continuous slope climbing will cause too high temperature of motor, which will stop power supply automatically. Slope angle should be less than 13 degrees.
- While riding at night, please use special bike lamp or appropriate bike lamp for safety purpose.
- While riding on public road, please equip the bike with bike lamp and reflector complying with regulations.
- While riding, attention should be paid to the vehicles that are driven into or out of the lane in front of you.
- While riding, attention should be paid to whether the door of the vehicle stopped in front of you is opened suddenly.
- While riding, attention should be paid to any pedestrian who rushes out suddenly.
- While riding, attention should be paid to obstacles such as pits, stones and rails, which may make you deviate the riding direction at any time.
- If the riding safety is affected by damaged parts while riding, please stop riding.
- It's advised that parts of the original manufacturer are used in case of replacement.
- The bike is originally designed for urban commuting purpose. Do not use it for cross-country, competition or on too rough pavement, etc, which will injure you or damage the bike frame.

**CAUTION !** Please wear safetv helmet for vour safetv.

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# IV. Introduction to use of battery

## Introduction to the charging operation

Charger connector of batteries

Charger

Fuse

Lamp signal

Indicator

I/O switch

Voltage115/230

Power plug

Pullup or pulldown is possible to switch the correct voltage for socket.

**Warning!** Please confirm whether AC voltage of socket is consistent with voltage of charger before charging, to avoid burnout of fuse

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# Introduction to the charging operations

**Charging procedures:**

1. Remove battery from the original equipment.
2. Confirm whether all power lines, battery lines and battery connectors are in the normal and usable state.
3. Confirm whether **output voltage of charger is compatible with the voltage of the connected battery.**
4. Make clear the positive and negative polarity and then connect battery to charger connector.
5. Confirm **whether AC voltage of socket is consistent with the voltage of the selected charger**, connect charger to power supply and turn on I/O switch, and then power indicator (Red lamp) will light up, which shows startup.
6. When the charging begins, the indicator of the charging state will show the charging lamp signal and will turn to green lamp after the charging is finished.

**Lamp signal instructions:**

Power indicator: If red lamp is on constantly, it means that charger starts up normally and is standby.

**Indicator instructions:**

Green lamp is on constantly: Standby
Orange lamp flashes: Pre-charging under low voltage
Orange lamp is on constantly: Pre-charging
Orange lamp is on constantly: In the charging process under rated current
Orange lamp is on constantly: In the charging process under rated voltage
Green lamp is on constantly: The charging is finished
Orange lamp flashes: Pre-charging for 1.5 hours and in the charging process under rated current or rated voltage for 10 hours. State has not yet been changed when the time set by Timer is up.

**In case of burnout of fuse: (Fuse 10A 250V)**

1. Rotate the fuse

2. Take out the fuse

3.Replace the fuse

4.Fasten the fuse

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## Disassembly sequence:

1

Remove the power line of batteries that connects bike body.

2

Remove the quick release at the front end of batteries.

3

Remove the batteries from the “left” of bike body.

**Reverse action of the disassembly sequence** 3 ➡ 2 ➡ 1

**Caution!** Assembly/disassembly must be conducted from the “left” of bike body to ensure correct installation of batteries.

**Warning!**

If the bike is used as general bicycle by removing the batteries, **the wire that connects motor to controller must be disconnected,** to avoid burnout of controller

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# Introduction of battery

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**1. Electrical specification of lithium battery**

- Nominal voltage: DC36V
- Nominal capacity: 14Ah
- Range of operating voltage: DC30V ~ 42V

**2. Accessories of lithium battery**

- Power line One
- Charger One
- Charger specification: Input 100 ~ 240VAC，50/60Hz 3A，Output 42V，4.0A

## Caution!

1. Please read this user manual and safety code in detail before you use lithium battery module, so as to understand the specifications and precautions of product.
2. According to provisions of transportation regulations, capacity of lithium battery module must be lower than 50% in transit. So user must charge the bike with the attached charger for 12 hours before the initial use and then use the bike after it's fully charged.
3. Please use the attached charger for charging and do not use the charger of other manufacturers.
4. After lithium battery is fully charged, do not connect charger to lithium battery for a long time.
5. The lithium battery are specially used for e-bike and do not use them for other products.
6. Before use, please ensure that lithium battery is fixed to the bike and confirm whether output terminal of battery is connected to the terminal of battery holder properly.
7. If battery is not used for a long time, please charge the battery fully and then turn off switch and put battery in a cool, ventilated place indoors. Battery should be charged once a month at least to ensure lifetime.
8. While charging, heating of charger and battery belongs to normal phenomenon.

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# Instructions for use of battery

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- Please ensure that battery module is dray. Do not put battery module into water.
- Do not charge the lithium battery module near fire source or in high-temperature environment, because high temperature will affect the lifetime of battery.
- Do not discard the old battery module that has been replaced to fire source or high-temperature environment. Please send them to distributor for recycling.
- Do not throw or knock battery module, because strong external force will damage the casing and internal circuit and protective circuit of battery, which is hardly to ensure safety of user.
- Do not use other chargers than the attached special one for charging. Using the chargers of other manufacturers will have bad effect on battery module and then we will not be responsible for warranty.
- Do not insert metals (e.g. wires, copper coin and clip, etc) into any terminal.
- Do not conduct fire-resistant test and waterproof test for lithium battery module and charger.
- Do not apply solvent or other chemical agent to battery module. Dry cloth can be used for cleaning.
- The lithium battery module is developed specially for e-bike and do not use it for other products.
- Do not touch power line and socket with wet hands.
- Do not place the charger within children's reach, to avoid accident.
- Do not ride the bike when battery on the bike is charging, to avoid danger caused by drawing the power line or bike damage.
- If battery is damaged or immersed in water, do not continue to use the battery and you should send them for repair.
- Do not stack heavy objects on battery, to avoid battery damage.

**CATION !** To safeguard your own rights and interests, pleasure make sure to observe the above precautions, which can reduce accidents and extend the lifetime of batteries.

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**Emphasis of safekeeping and care**

Check whether bike body is cracked. Any crack means potential danger and will give rise to accident. If repair is not conducted or relevant fittings are not replaced in time, there will be severer danger. Once bike body is cracked, the crack will become larger in a short time. Rustiness or discoloration may hint the occurring of cracks. If you find a crack, please replace relevant fittings.

1. Check and observe any rusty position carefully to confirm whether there's any crack. Rustiness will quicken the damage of bike body or parts and large cracks.
2. Clean your bike, lubricate relevant fittings and make your bike away from any corrosive things such as salt.
3. Do not polish, drill or engrave mark on the surface of bike body. Large scratches and boreholes will cause cracks. Attention should be often paid to these positions or replace with new fittings.

   A bike that's properly maintained will not produce abnormal sound while riding. Some cracks (Especially larger cracks) will produce abnormal sound when you ride the bike. Such abnormal sound is the signal of warning of danger. Attention should be paid to the source of abnormal sound (even if it's not caused by cracks), namely eliminate the cause of abnormal sound as soon as possible.

**Caution!**

If bike is damaged or needs adjustment, please contact seller for assistance and do not repair the bike by yourself. Repair and maintenance of bike needs special knowledge and tools. Non-professional adjustment or repair may damage the bike or cause accident and heavy casualties.

● If you want to master the main repair techniques:

1. Ask your distributor to provide introduction data of installation and maintenance of parts of bike or contact manufacturers of parts.
2. Ask your distributor to recommend the books relating to repair of bike.
3. Consult your distributor on the courses relating to repair of bike.

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# Maintenance and care

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**Maintenance and care instructions:**

- Do not clean the bike by strong spraying, to avoid damp and damage of battery system. Dry cloth can be used for cleaning.
- Please use neutral or soft detergent for cleaning, to avoid damage of bike body.
- Do not use seawater or water source containing salt for cleaning. Cold water should be used, so as to avoid accelerated corrosion.
- After bike has been cleaned or when you store the bike, please keep the bike and surroundings as dry as possible, to avoid rustiness.
- If long-term storage is required, please remove battery from bike.
- Please avoid exposing the bike to the sun and rain and you should place the bike in buildings as much as possible.
- If bike is out of use for a long time, please lubricate the gears or screws properly.

**Caution!** Correct maintenance and care can not only make you bike keep brand-new appearance, but also maintain the best performance.

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# Routine maintenance

While bike is used, many factors will cause the wear and tear, consumption, damage and looseness of parts. If check and maintenance is not conducted regularly at ordinary times, lifetime of your bike will be shortened, except the danger that's easy to occur while riding.

Generally, the first scheduled maintenance should be conducted within two months as from the purchase date of bike and the second scheduled maintenance within six months, and then check and maintenance should be conducted once every six months.

**Check items and time:**

Symbol definition: Adjustment(◆) Check(■) Tighten:(▲) Lubricate:(●) Replace:(★)

| Maintenance Items | New | 2months | 6months | 1year | 1.5year |
|---|---|---|---|---|---|
| Tire pressure | ◆ | ◆ | ◆ | ◆ | ◆ |
| Saddle height and angle, Upright height. | ◆ ▲ | ■ | ◆ | ◆ | ◆ |
| Front fork revolving, if parts are loose or not. | ▲ | ■ | ■ ▲ | ■ ▲ ● | ■ ▲ |
| If pedals and BB principal axis are loose or not. | ▲ | ■ | ■ ● | ◆ ■ | ◆ ■ ● |
| If front wheel motor axes and rear wheel inner shift hub are loose or not. | ▲ | ■ | ■ | ◆ ■ | ◆ ■ |
| If chain is too loose or too tight | ◆ | ■ ● | ■ ● | ■ ● | ■ ● |
| If front and rear brakes are flexible or not. | ◆ | ■ | ◆ | ◆ ■ | ◆ ■ |
| If brake handle(grip distance) is proper or not. | ◆ | ■ | ◆ ■ | ◆ ■ | ◆ ■ |
| If brake block is abraded or not. | ▲ | ■ | ■ | ◆ ■ | ◆ ■ ★ |
| If big and small Crankset are abraded or distorted. | | ■ | ■ | ■ | ■ |
| If wheel rim leaves the center or distorted. | ◆ | ■ | ■ | ◆ ■ | ◆ ■ |
| If spokes are loose or broken. | | ■ | ■ | ◆ ■ | ◆ ■ |
| If frame and front fork are damaged or not. | | ■ | ■ | ■ | ■ |
| If attachment or other screws are loose or not. | ▲ | ■ | ■ | ■ | ■ |

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## 11. Simple troubleshooting

◆Troubleshooting of bike

| **Condition 1: Ride the bike with great effort or there's no** power | |
|---|---|
| Possible cause | Fault elimination |
| Switch of battery is not turned on. | ◆Insert battery key and turn on battery supply<br>◆Press the power supply of LCD control system<br>◆Select pedelec setting. |
| Output terminal of battery disconnects from the input terminal of battery holder | ◆Confirm whether output terminal of battery is connected to input terminal of battery holder well. |
| Connector of the wire that connects battery to other parts is disconnected | ◆Connect the wire well according to arrow instructions on the wire connector |
| Battery is dead | ◆Use special charger to charge the battery. |
| **Condition 2: There's no LED lamp signal of batteries** | |
| Possible cause | Fault elimination |
| Battery supply is not turned on | ◆ Press the switch of battery supply |
| Battery is dead or have fault | ◆Use special charger to charge the battery.<br>◆If battery cannot be charged, please contact distributor to replace battery. |

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| **Condition 3: Battery power display flashes or is off** | |
|---|---|
| Possible cause | Fault elimination |
| Battery is dead. | ◆Use special charger to charge the battery.<br>◆The connecting wire of controller is loose or controller has fault, please check whether connector of wire is inserted properly. |
| **Condition 4: The traveling distance of e-bike is shortened** | |
| Possible cause | Fault elimination |
| Because of long-distance slope climbing or motor in high load state for a long time, the bike stops running very frequently. | ◆Road conditions will affect the traveling distance of e-bike, so it's normal that the traveling distance of e-bike is shortened, which is not due to fault. |
| Tire pressure is insufficient or flat tire occurs. | ◆Inflate the tires to achieve appropriate tire pressure<br>◆Repair the tire or replace the inner tube |
| The bike has not been ridden for a long time, thus causing insufficient battery power. | ◆Even though the bike is not ridden for a long time, battery will be discharged naturally, thus causing insufficient power, so traveling distance of e-bike is shortened.<br>◆Please use special charger to charge the battery. |
| Lifetime of battery is expiry due to long-term use and charging/discharging times. | ◆Please contact distributor to replace battery. |

**Caution !** If fault or effect cannot be eliminated through the above instructions, please send the bike to original supplier for repair as soon as possible.

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# Troubleshooting of battery and charger

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| **Condition 1: Battery cannot be charged or LED indicator is off** | |
|---|---|
| Possible cause | Fault elimination |
| Charger is not connected to power supply or power line is disconnected. | ◆Confirm whether socket and connector between charger and mains supply is connected properly<br>◆Confirm whether the LED indicator of charger turns to red lamp (Indicating the standby state) after connecting the power supply |
| The output terminal of charger is disconnected from battery | ◆Confirm whether charger is connected to output terminal of battery properly.<br>◆Confirm whether LED indicator of charger turns to orange lamp (Indicating the charging state) |
| Battery have fault | ◆Please contact distributor to replace battery |
| **Condition 2: LED indicator of charger turns to red lamp (indicating the standby state) and doesn't turn to orange color (indicating the charging state) after charger is connected to output terminal of battery properly.** | |
| Possible cause | Fault elimination |
| Charge the battery for the first time or after battereis have not used for a long time | ◆Lamp signal will change automatically several minutes later<br>◆If red lamp is on constantly, battery may have fault, so please contact distributor to replace battery. |
| **Condition 3: LED inciator of charger is off or doesn't turn to orange lamp (indicating the charging state) after charger is connected to output terminal of battery.** | |
| Possible cause | Fault elimination |
| Charger or battery have fault. | ◆Please stop charging and pull out the plug immediately<br>◆Contact distributor to replace the charger or battery. |

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| **Condition 4: After charging for 3-4 hours, LED indicator of charger is off or doesn't turn to green lamp (indicating that the charging has been finished)** | |
|---|---|
| Possible cause | Fault elimination |
| Charger or battery have fault. | ◆Please stop charging and pull out the plug immediately<br>◆Contact distributor to replace the charger or battery. |
| **Condition 5: LED indicator of charger, red lamp and green lamp flash alternately** | |
| Possible cause | Fault elimination |
| Charger or battery have fault | ◆Please stop charging and pull out the plug immediately<br>◆Contact distributor to replace the charger or battery. |
| **Condition 6: The charger indicates that the charging has been finished. But battery power indicates that all 9 grids are not full** | |
| Possible cause | Fault elimination |
| Battery, charger or controller has fault | ◆Please contact distributor to replace battery, charger or controller. |
| **Condition 7: Abnormal sound, odour or smook occur in the charing process** | |
| Possible cause | Fault elimination |
| Charger has fault | ◆Please stop charging and pull out the plug immediately<br>◆Contact distributor to replace the charger |

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# Abnormal display of controller and fault elimination for

## Abnormal display LED of accelerator:

| code | LED abnormal display | | Cause | Fault elimination | Remark |
|---|---|---|---|---|---|
| 1 | Low voltage | R_LED flash 0.5S/0.5S | Battery voltage is too low<br>Lithium battery<br>36V system: Less than 32V<br>Lead-acid battery<br>36V system: Less than 30V | Check battery supply: Replace or charge the battery. | |
| 2 | Power-off of brake system is abnormal. | G_Y_R_LED flash 0.5S/0.5S | Brake gets stuck or short circuit occurs | Check whether brake has been pressed, and remove brake wire. | Startup detection |
| 3 | Power-on accelerator is abnormal. | Y_LED flash 0.3S/0.3S | Accelerator gets stuck or short circuit occurs. | Check whether accelerator turns to original point and returns to normal automatically. | Startup detection |
| 4 | Cancel pedelec mode and electric mode. | Y_LED flash 1S/1S | Battery power indicates that output of torque is set to be zero. (Non-pedelec mode) | The setting device of power display and output torque, within 5 segments of output torque. | Special function |

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## Abnormal display of controller and fault elimination for

| code | LED abnormal display | | Cause | Fault elimination | Remark |
|---|---|---|---|---|---|
| 5 | Accelerating<br>Japan: 24km<br>EU: 25km<br>USA: 32km | G_LED<br>flash<br>0.3S/0.3S | Motor speed exceeds the limit speed. | Motor speed is reduced and returns to normal automatically. | |
| 6 | Motor is overloaded. | Y_R_LED<br>flash<br>0.5S/0.5S | Motor has been overloaded for four minutes, reducing output power of motor. | Recover the maximum output power of motor (Prevent motor from exceeding the temperature) by re-startup. | Special function |
| 7 | Temperature of controller is too high. | G_R_LED<br>flash<br>1S/1S | Temperature of controller exceeds 70℃ | Turn down controller and controller will return to normal automatically after cooling down. | |
| 8 | Controller/motor is abnormal. | G_R_LED<br>flash<br>1S/1S | Motor is abnormal and controller is abnormal. | Send back to original manufacturer for check. | |

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# VII. Specification Form

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| | |
|---|---|
| Color | YS-7626-1 ORANGE or YS-9189-1 BLUE |
| Dimension | 26"*17" |
| Frame | 7071 ALU-ALLOY |
| Front fork | 28.6X25.4X185MM SUSPENSION FORK BK |
| Chain wheel | GEAR 42T 1/2"X3/32" /<br>CRANK 170MM ALU-ALLOY |
| Rear derailleur | SHIMANO RD-M310 BK |
| Shifter | SHIMANO ASLR S43R 7A |
| Chain | 1/2"x3/32" - 116EYES |
| Brake system | F/R DISC BRAKE |
| Handlebar | L=620MM H=20MM ALU-ALLOY |
| Handlebar stem | 25.4X85MMX180MM ALU-ALLOY |
| Seat post | Φ30.4x300mm ALU-ALLOY |
| Wheel rim | BX-32 26"X36H-AV BK/CNC |
| Spoke | 14G STAINLESS, BRASS NIPPLE |
| Tire | K841 26"X1.75 A/V BK |
| **Power System Specification** | |
| Motor | 36V500W DC BRUSHLESS HUB MOTOR |
| Battery | 36V14AH LITHIUM BATTERY |
| Charger | 36V4A CHARGER |
| Display | LED CONSOLE |
| Sensor device | SPEED SENSOR |

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